

TALLY SHEETSHow to Use the Stand Examination Tally Sheet

The Stand Exam Tally Sheet, [Form 2400-32](#), is designed to be used in cruising areas which have been stratified into stands prior to the cruise. The number of sheets used per stand will depend upon the size of the stand and the desired sampling intensity, but in no case should more than one stand be recorded on the same sheet.

Header Information

Filling in the header information may often seem to be an unnecessary exercise in recording the obvious and therefore ignored. Ignoring it and failing to complete the header block is a cardinal sin when cruising, because all of the stand information recorded on the lower portion of the sheet can be rendered completely worthless without the header information.

Department of Natural Resources

**STAND EXAMINATION TALLY**  
Form 2400-32 Rev. 5-94

|                    |    |    |             |              |           |                  |
|--------------------|----|----|-------------|--------------|-----------|------------------|
| Property or Forest |    |    | Comp. No.   | Stand No.    | Acres     | No. Sample Point |
| Section            | T. | R. | Description | Primary      | Secondary | Understory Type  |
| Estimator          |    |    | Date<br>/ / | Habitat Type | Soil Type |                  |

# Timber Sale Handbook

Pulpwood Tally - For trees between 5" and 11" DBH only.

| Point No. | SPECIES CODE   |           |           |  |  |  |  |  | Total Cords | Trees/Acres |         | BASAL AREA |      |         |         |       |
|-----------|----------------|-----------|-----------|--|--|--|--|--|-------------|-------------|---------|------------|------|---------|---------|-------|
|           | Aspen          | Birch     | Fir       |  |  |  |  |  |             | Seedling    | Sapling | Sap.       | Pole | Sm. Saw | La. Saw | Total |
| 1.        | 454435<br>15½  | 44<br>5   | 4<br>2½   |  |  |  |  |  | 23          |             |         | •          | 10   | 90      | •       | 10    |
| 2.        | 55546<br>15    | 43<br>4½  | -         |  |  |  |  |  | 19½         |             |         | ••         | 20   | 70      | •       | 100   |
| 3.        | 5446544<br>19½ | -         | 34<br>4½  |  |  |  |  |  | 24          |             |         |            | 90   | •       | ••      | 120   |
| 4.        | 4544<br>10½    | 445<br>8  | 44<br>5   |  |  |  |  |  | 23½         |             |         | •          | 10   | 90      |         | 100   |
| 5.        | 565564<br>18½  | 53<br>5   | 4<br>2½   |  |  |  |  |  | 26          |             |         | •          | 10   | 90      | ••      | 130   |
| 6.        | 44454555<br>22 | -         | -         |  |  |  |  |  | 22          |             |         |            | 80   | ••      | •       | 100   |
| 7.        | 545645<br>17½  | -         | -         |  |  |  |  |  | 17½         |             |         | •          | 10   | 60      | ••      | 100   |
| 8.        | 44656<br>15    | 444<br>7½ | 34<br>4½  |  |  |  |  |  | 27          |             |         |            | 100  | •       | •       | 110   |
| 9.        | 65545<br>15    | 434<br>7  | 334<br>6½ |  |  |  |  |  | 28½         |             |         |            | 110  | ••      | •       | 130   |
| 10.       | 5444546<br>19½ | 343<br>6½ | -         |  |  |  |  |  | 26          |             |         | •          | 10   | 100     | •       | 120   |
| Total     | 168            | 43½       | 25½       |  |  |  |  |  | 237         |             |         | 70         | 880  | 120     | 60      | 1130  |
| Per Acre  | 16.8           | 4.35      | 2.55      |  |  |  |  |  | 23.7        |             |         | 7          | 88   | 12      | 6       | 113   |

- Record species at the top of columns.
- Tally each tree by number of 8' sticks in appropriate column (small numbers).
- Count the number of trees recorded on each point, by species, e.g.: 6 aspen recorded on point #1.
- Find total number of sticks recorded on each point, by species, e.g.: 25 sticks of aspen recorded on point #1.
- Add number of trees recorded to number of sticks and divide the total by 2 to find cords per acre; e.g.:  $6 + 25 = 31$ ;  $31 / 2 = 15\text{-}1/2$  cd/ac aspen on point #1.
- Record cords per acre by species for each point (large numbers).
- Determine totals by species and by point.
- Divide totals by number of points to obtain per acre volumes.

## Basal Area Tally

- Use dot-tally for sapling and sawtimber categories: 1 dot for each tree tallied: Each dot = 10 sq. ft. BA/ac.
- Number of pulpwood category trees tallied can be determined by counting the total number of pulpwood size trees recorded on each point.
- Divide totals by number of sample points to obtain BA/ac for the stand.

## Sawlog Tally

Both the small sawtimber and large sawtimber categories are cumulative tally sheets. The small saw portion is for trees between 11 and 15 inches DBH. The large saw portion is for trees over 15 inches DBH.

## How to Use the Stand Examination Tally Sheet

|   |    | No. of 16 - foot logs BAF 10 |                      |                     |                      |                |             |                |       |              |      | D.B.H. Range   |  |  | Board Feet | Grth. | Age | Ht. | Species |
|---|----|------------------------------|----------------------|---------------------|----------------------|----------------|-------------|----------------|-------|--------------|------|----------------|--|--|------------|-------|-----|-----|---------|
|   |    | Sp.                          | 1/2                  | 1                   |                      | 1 1/2          |             | 2              |       | 2 1/2        | 3    | Average D.B.H. |  |  |            |       |     |     |         |
| SMALL SAWTIMBER                                   | A  | 3 7 10                       | 6 12 18 24 30 36 42  | 9 17 26 35 43 52 61 | 10 21 32 42 52 63 73 | 13 26 39       | 15 30       |                | 2100  |              |      |                |  |  |            |       |     |     |         |
|   |    | 13 17                        | 48 54 60 66 72 78 84 | 70 78 87 96 104 113 | 84 95 105 115 126    | 52 65 78       | 45 60       |                |       |              |      |                |  |  |            |       |     |     |         |
|   |    | 3 7 10                       | 6 12 18 24 30 36 42  | 9 17 26 35 43 52 61 | 10 21 32 42 52 63 73 | 13 26 39       | 15 30       |                |       |              |      |                |  |  |            |       |     |     |         |
|   |    | 13 17                        | 48 54 60 66 72 78 84 | 70 78 87 96 104 113 | 84 95 105 115 126    | 52 65 78       | 45 60       |                |       |              |      |                |  |  |            |       |     |     |         |
|   | FW | 3 7 10                       | 6 12 18 24 30 36 42  | 9 17 26 35 43 52 61 | 10 21 32 42 52 63 73 | 13 26 39       | 15 30       | Average D.B.H. |       |              |      |                |  |  |            |       |     |     |         |
|   |    | 3 7 10                       | 6 12 18 24 30 36 42  | 9 17 26 35 43 52 61 | 10 21 32 42 52 63 73 | 13 26 39       | 15 30       |                |       |              |      |                |  |  |            |       |     |     |         |
|   |    | 3 7 10                       | 6 12 18 24 30 36 42  | 9 17 26 35 43 52 61 | 10 21 32 42 52 63 73 | 13 26 39       | 15 30       |                |       |              |      |                |  |  |            |       |     |     |         |
|   |    | 3 7 10                       | 6 12 18 24 30 36 42  | 9 17 26 35 43 52 61 | 10 21 32 42 52 63 73 | 13 26 39       | 15 30       |                |       |              |      |                |  |  |            |       |     |     |         |
| LARGE SAWTIMBER                                   | A  | 4 8                          | 7 14 20              | 19 29 38 47 57      | 12 25 37 49 62 74    | 15 29 44 59 74 | 17 34 51 68 | 19 38          | 21 43 | 24 26        | 900  |                |  |  |            |       |     |     |         |
|   |    | 12 16                        | 27 34 41             | 67 77 85 95 105     | 86 98 111 123 135    | 88 103 118 132 | 85 102 119  | 58 77          | 65 86 | 48 51        |      |                |  |  |            |       |     |     |         |
|   |    | 4 8                          | 7 14 20              | 9 19 29 38 47 57    | 12 25 37 49 62 74    | 15 29 44 59 74 | 17 34 51 68 | 19 38          | 21 43 | 24 26        |      |                |  |  |            |       |     |     |         |
|   |    | 12 16                        | 27 34 41             | 67 77 85 95 105     | 86 98 111 123 135    | 88 103 118 132 | 85 102 119  | 58 77          | 65 86 | 48 51        |      |                |  |  |            |       |     |     |         |
|   | FW | 4 8                          | 7 14 20              | 9 19 29 38 47 57    | 12 25 37 49 62 74    | 15 29 44 59 74 | 17 34 51 68 | 19 38          | 21 43 | 24 26        | 7100 |                |  |  |            |       |     |     |         |
|   |    | 12 16                        | 27 34 41             | 67 77 85 95 105     | 86 98 111 123 135    | 88 103 118 132 | 85 102 119  | 58 77          | 65 86 | 48 51        |      |                |  |  |            |       |     |     |         |
|   |    | 4 8                          | 7 14 20              | 9 19 29 38 47 57    | 12 25 37 49 62 74    | 15 29 44 59 74 | 17 34 51 68 | 19 38          | 21 43 | 24 26        |      |                |  |  |            |       |     |     |         |
|   |    | 12 16                        | 27 34 41             | 67 77 85 95 105     | 86 98 111 123 135    | 88 103 118 132 | 85 102 119  | 58 77          | 65 86 | 48 51        |      |                |  |  |            |       |     |     |         |
| REMARKS: Management Objectives and Precpriptions. |    |                              |                      |                     |                      |                |             |                |       | Total        |      | 13,300         |  |  |            |       |     |     |         |
|   |    |                              |                      |                     |                      |                |             |                |       | Average/Acre |      | 1330           |  |  |            |       |     |     |         |

1. List species in Sp. column.
2. For each sawtimber size tree strike out (/) a number in the appropriate size and species category. e.g.: A 14" DBH white pine containing 2 logs would be tallied by striking out 10 in the vertical column labeled 2. (A dot must also be place in the sawtimber Basal Area tally at this time.) The next small sawtimber size white pine containing 2 logs should be tallied by striking out 21, the next by striking out 32, etc. The same process is followed for other species and other size classes.
3. To total board foot volume, add the last numbers struck in each category for each species. e.g.: Large sawtimber white pine in above example: add 25, 29 and 17 = 71. The 71 represents hundreds of board feet per acre, so 2 -Zeros ("00") must be added to the 71. Total the "bd. Ft." column and divide that by the number of points cruised in the stand to determine bd. ft./acre.

### Growth, Age and Height Tally

1. Record number of rings per inch under 'Growth' (NOTE: this cannot be entered into the recon stand sheet Form 2400-26 – no such field exists).
2. Record total age of sample trees under 'Age'.
3. Record total height of sample trees under 'Height'.

DBH Range and Av. DBH

Record estimates of DBH range and average DBH.